





(or, "My Moriond Experience")



Boaz Klima Fermilab

50th Moriond/QCD Mar. 26, 2015



This Presentation



- What is not included in this talk:
 - Any scientific results: #'s, plots, comparisons (unless important to understand the atmosphere back then)
 - In particular, actual account of all the steps leading to the Top Quark
 Discovery at the Tevatron

This is not one of the conference's scientific contributions!

- What is this talk about?
 - Since this is the Moriond50 celebration, it is about Moriond
 - I'll give you my perspective as I started my active participation in the Moriond series of conferences (+ mention others)
 - Wherever possible I'll show photos (sorry if I appear in too many of them!)

This is a story that started 20 years ago...



From Archeology to History



Fast Forward from Dino's Era to "only" 20 years ago...

Just to remind you, back then:

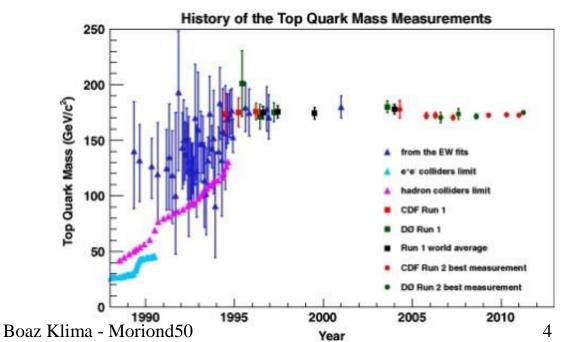
- 1. There were no laptops, no iPhones, no memory sticks,...
- 2. Presentations were made on real slides. Yes, plastic!
- 3. Everything done (meetings, decisions,...) was pretty localized/regional rather than global



We are in early 1994...



- The search for the Top quark in experiments worldwide has been going on for at least 17 years
- Top quark mass
 - Experiments have been producing limits, limits, and more limits
 - Theorists predictions and SM fits increasing steadily with new limits...
 - They started long before the 1990's...
 - ◆ 1970's 13.5GeV
 - ◆ 1980's 27GeV,...
 - Highest lower limit from the Tevatron is Dzero's at 131 GeV
 - Last SM fit reported at Moriond 1994 (by Bolek Pietrzyk) is ~177+/- GeV





Summer 1994



- At the Tevatron, the CDF and DZero collaborations finished analyzing their Run 1a data – both having similar ("expected") sensitivity to Top pair production
- CDF published a paper claiming evidence (2.8σ) for Top quark production with a cross section that is twice as large as predicted by SM
- Dzero's result (1.9 σ) was consistent both with CDF's and with no signal its "measured" $\sigma_{\rm f\bar{t}}$ was consistent w/ SM
- Both experiments need more data Run 1b is well underway
- Each collaboration decides (independently!) to double the data sample while analyzing the new data (Run 1b) exactly as before – sanity/consistency check



DZero and Conferences



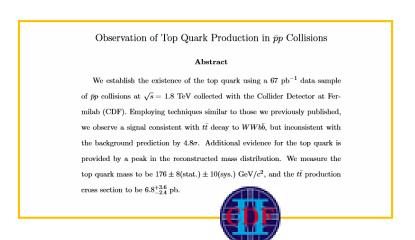
- DZero has a Speakers Bureau (SB), headed by Sharon Hagopian (FSU), which assigns talks at conferences
- I am serving as convenor of the Top Physics analysis group at DZero, together with Nick Hadley (Maryland)
- We regularly recommend to the SB on candidates from the Top group for talks at conferences; obviously never ourselves
- In November '94 I received an unexpected invitation from Sharon (SB chair) to give a "Top Search" talk at Moriond
- I hesitated a bit since
 - There is nothing yet from Run 1b; just another "Search" talk
 - I don't ski
 - Moriond is just another conference...
- I accepted since we had to send a name to the organizers

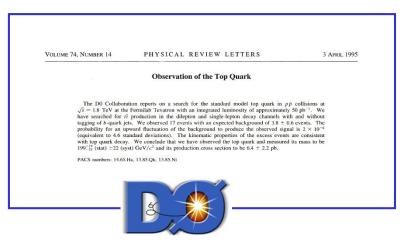


Top Quark Discovery – Early 1995



- Without going into too many details since they are not relevant here, early in 1995 the two collaborations found an overwhelmingly convincing signal for Top quark production
- Both submitted their discovery papers to PRL on Feb. 24, 1995 at 11am CST (not that anybody is counting...)





The world had to wait until...



Top Quark Discovery



 The official seminars from CDF and DZero were given on Mar. 2nd at Fermilab by the collaborations' spokespeople







New York Times Mar. 3, 1995

"We're so elated by the discovery of the top quark that we haven't yet begun to sift all the data," said Dr. Boaz Klima of Fermilab, one of the leaders of the successful search. "But this particle is so astonisingly heavy that its decay may give us hints of a lot of other things, perhaps even of supersymmetric particles."

Beware! You are not in control of your message in the media!!



Top Discovery in the World News



...and the word went out quickly...





End of a Long Chase

he discovery of the top quark is as significant as the discovery of the electron.



as significant as the discovery of



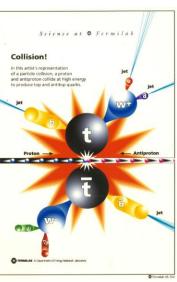
March 1995



A few more pics for the memories...







- ...and I'm packing and heading to the airport on my way to Moriond (if I'm not mistaken, that was Moriond30!)
- My talk is scheduled to be the very first of the conference...

Perfect Timing !!!



Moriond 1995













Moriond 1995







Joining Moriond Organization



- After the conference Van invited me to join the program committee – I happily agreed
- Little did I knew back then that it's a life-long commitment...

 Moreover, "the brand" as some call it, consists of other conferences, e.g. Blois, Vietnam as well as many voluntary

activities



Blois 2010





TRUONG TAN SANG - HA NOI 24/8/2013

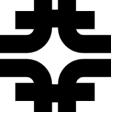


Moriond 1995 - 2015



- Over the last 20 years my family and I had unforgettable experiences in Moriond at Les Arcs and La Thuile
- Much like all of you here, I enjoyed a lot the scientific (top notch!), the environmental (beautiful), and the organizational (superb!) aspects of Moriond
- It is impossible to sum it all up in a few minutes, even not by using photos taken over the years
- Nevertheless, the next 3 pages will attempt to do exactly that
- It is not doing justice to the conference, its organizers, our friends and colleagues
- However, it's a (first?) attempt

Enjoy!!



Moriond in Pics - Family







Moriond in Pics - Friends







Moriond in Pics - Celebrations







My Personal Perspective



- I enjoyed serving on the Moriond program committee for the last 20 years, working closely with amazing people
- I attended (yes, in person) all 20 Morionds since 1995, watching closely how the conference evolved together with HEP while maintaining its unique spirit and atmosphere
- Moriond remains the best place to show new results and the most sought after conference in HEP
- Nowadays it appears regularly on the national media in many countries
- It has long moved from just-another-conference to becoming an Institution in HEP, maybe in all of science



Thanks



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Many thanks to all those who helped creating and then organizing this wonderful series of meetings: Van, Kim, Etienne, Jacques, Bolek, and many, many others